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    ANSWER 21 OF 40 CA COPYRIGHT 2006 ACS on STN
AN
    134:45925 CA
    Entered STN: 11 Jan 2001
ED
    Manufacture of high-strength fly ash brick
TΙ
    by self-ignited sintering
    Zhang, Lihong; Cui, Yanhu; Zhang, Yongjin; Fu, Qiang; Xu, Henghai
IN
    First Steel-Smelting Industry General Plant, Angang Industry Development
PA
    Corp., Peop. Rep. China
     Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.
SO
    CODEN: CNXXEV
DT
    Patent
LA Chinese
IC
    ICM C04B018-08
    58-6 (Cement, Concrete, and Related Building Materials)
CC
    CN 1250200
FAN.CNT 1
                                        APPLICATION NO.
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PI CN 1252393 / A 20000510 CN 1998-114405 19981023
CN 1083406 B 20020424
PRAI CN 1998-114405 19981023
CLASS
 PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
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                      _____
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 CN 1252393 ICM C04B018-08
               IPCI C04B0018-08 [ICM,7]
               ECLA C04B033/13W4B
AΒ
     The brick is composed of: fly ash 60-90,
     western bentonite 5-20, and aggregate 5-20 weight%. The brick is
     manufactured by: naturally dewatering the fly ash to
     water content ≤23%, smashing the western bentonite to
     ≤0.088 mm, blending the aggregate (diameter = 1-5 mm, and 2-4 mm >
     50%); mixing all raw materials; molding when water content <20%
     to obtain unburned brick; drying the unburned brick at
     >200° for > 20 h to water content <6%; and
     sintering at 1050-1200° for ≥24 h. Preferably, the
     flyash is high C fly ash with thermal value of
     4000-5000 KJ/Kg; the aggregate is coal gangue slag or ironmaking slag; and
     the molding is carried out by extruding at \geq 2.5 MPa. The
     brick has low cost and good performance.
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fly ash brick self ignition

sintering; bentonite aggregate fly ash

ST

IT

brick

Drying